

**MANITOBA**  
**LABOUR FORCE PROJECTIONS**

**1996 - 2021**

**MBS 2000-4**

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**MAY 2000**

Manitoba  
Bureau of  
Statistics





## EXECUTIVE SUMMARY

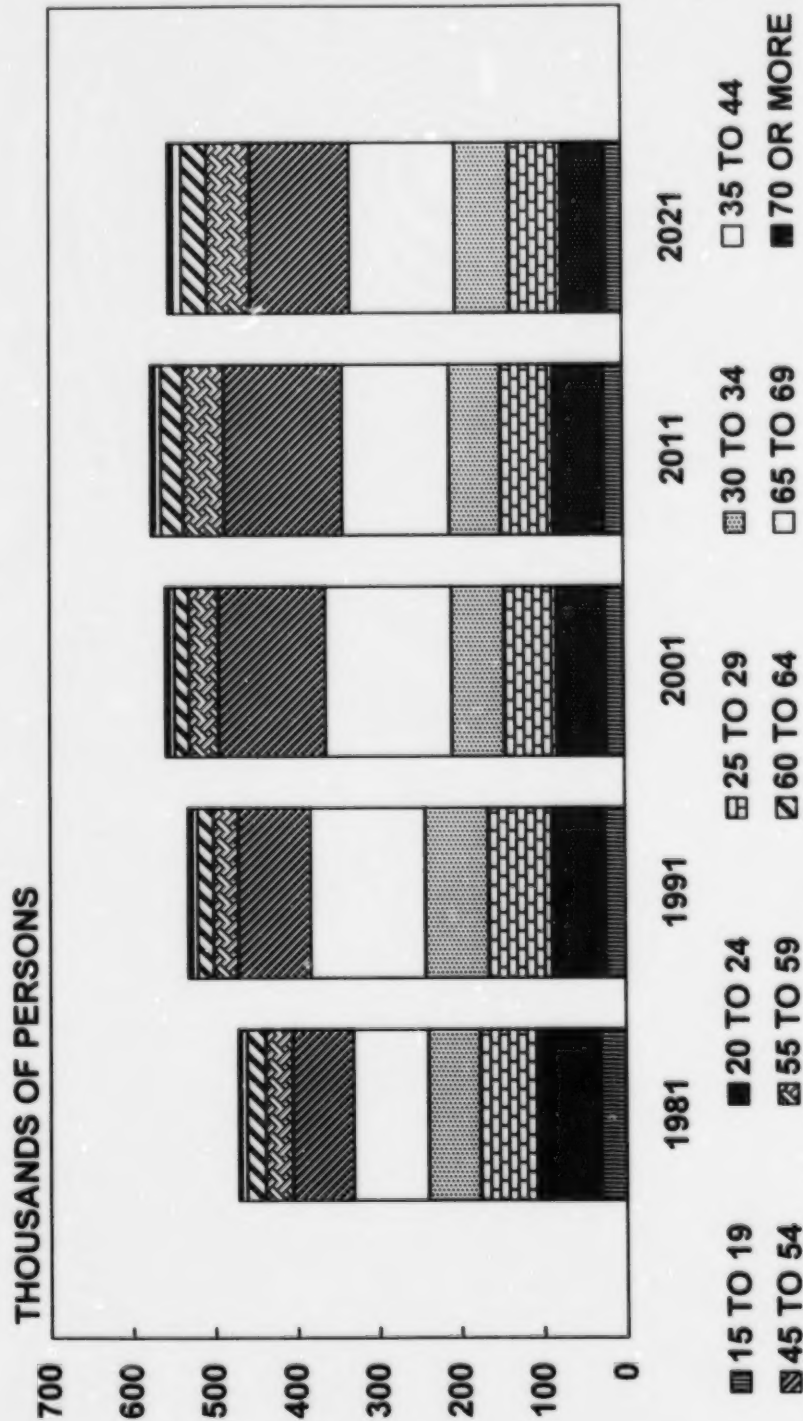
This report presents the projected labour force population, participation rates, and labour force for Manitoba, by age group and sex, for the period 2000 to 2021.

Highlights of these projections are as follows:

1. The projected **labour force population** for Manitoba increases by 8.3%, from 852,000 in 1999 to 923,000 in 2021. The female portion is to increase 8.5% from 434,000 to 471,000, and the male portion is to increase 8.1% from 418,000 to 452,000 during the projection period.
2. The projected **participation rate** for Manitoba decreases from 67.5% in 1999 to 62.1% in 2021. The participation rate for females aged 15 and over is projected to fall 5.5 points from 60.5% in 1999 to 55.0% in 2021, while the participation rate for males in the labour force population is projected to decrease 5.3 points, from 74.7% to 69.4%.
3. The projected **labour force** for Manitoba increases by 3.8% from 575,000 in 1999 to a peak of 597,000 in 2010 before decreasing to end up at 573,000 by the end of the projection period. The female portion is to increase 3.4% from 263,000 to a maximum of 272,000 in 2010 before decreasing to 259,000. The male portion is to increase 4.2% from 312,000 and then crest in 2011 at 325,000 before decreasing to 314,000 by the end of the projection period.
4. Over the course of the projection period, there are marked changes in the group composition of the **labour force** of Manitoba. The largest segment in 2000, the 35 to 44 age group, is surpassed by the 45 to 54 age group by 2007, only to regain superiority by 2018.

Of the seven 5 year age groups, the 15 to 19 year old age category is currently ranked third. However, over the projection period, the 55 to 59 age group, currently fourth, is projected to over take the younger age group.

# MANITOBA LABOUR FORCE BY AGE GROUP: 1981 TO 2021 HISTORICAL AND PROJECTED



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## INTRODUCTION

This report presents the projected Manitoba labour force population, participation rates and labour force for the period 1996 to 2021. These items, which have been projected by sex and age group, are defined below:

- |    |                                  |  |
|----|----------------------------------|--|
| 1) | <b>Labour Force Population -</b> | the civilian, non-institutionalized, off-reserve population aged 15 years and over |
| 2) | <b>Participation Rate -</b>      | the percentage of the labour force population that is in the labour force          |
| 3) | <b>Labour Force -</b>            | the number of persons that are either employed or unemployed                       |

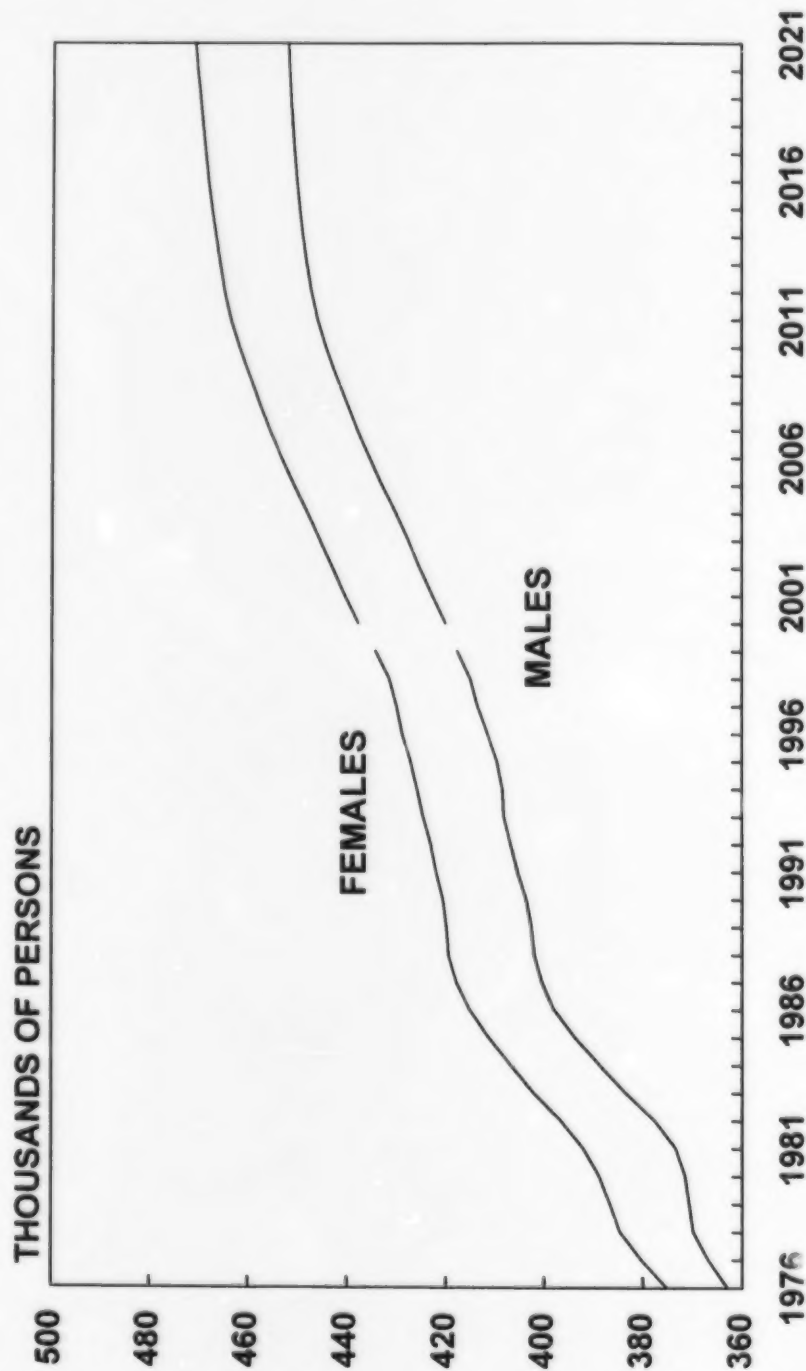
Historical data (1976 to 1999 annual averages) on Manitoba's age and sex specific participation rates and labour force were obtained from the Statistics Canada Labour Force Survey. The labour force population projections were based on the Manitoba Bureau of Statistics report **Manitoba Population Projections 1996 - 2031**.

Participation rates were projected for the years 2000 to 2021 for males and females in each age group: 15 - 19, 20 - 24, 25 - 29, 30 - 34, 35 - 44, 45 - 54, 55 - 59, 60 - 64, 65 - 69 and 70 or more. The projected labour force (displayed in Appendix C) was then derived from the projected labour force population (Appendix A) and the projected participation rates (Appendix B). The methodology used in projecting the sex and age specific participation rates is described in Appendix E.

The estimated participation rates for 1996 to 1999 have been used to ensure consistency in this report between the historical and projected data.

**These projections are not forecasts, but project what would occur if historical trends continue and assumptions made hold true. As the process of change is cumulative, the reliability of these projections decreases over time.**

# **MANITOBA LABOUR FORCE POPULATION** **BY SEX: 1976 TO 2021** **HISTORICAL AND PROJECTED**



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## LABOUR FORCE POPULATION

Historically, labour force populations of both males and females have been increasing each year, and are expected to continue to grow along with the total population of Manitoba (Population x Adjustment = Labour Force Population), through the year 2021. The female labour force population is projected to increase 8.5%, from 434,000 in 1999 to 471,000 in 2021. The male labour force population is projected to increase 8.1%, from 418,000 to 452,000 and the total labour force population is projected to increase 8.3%, from 852,000 to 923,000 during the projection period.

Labour force populations of the 70 or more age group (for both sexes) are projected to increase continuously throughout the projection period, from 61,000 in 1999 to 74,000 in 2021 (21.3%) for females, and from 43,000 in 1999 to 57,000 in 2021 (32.6%) for males.

For females aged 65 to 69 years, the projected labour force population increases 71.4% from 21,000 in 1999 to 36,000 in 2021. The male labour force population increases 73.7% from the 1999 estimate of 19,000 to 33,000 in 2021.

Females in the 60 to 64 age group have an increase of 81.8% in labour force population, from 22,000 in 1999 to 40,000 in 2021. Males in this category have an increase of 85.7%, from 21,000 in 1999 to 39,000 in 2021. This age group has the greatest percentage increase in labour force population over the projection period.

An increase of 53.8% in labour force population is projected for females aged 55 to 59, from 26,000 in 1999 to 40,000 by the end of the projection period. The male labour force population is projected to increase 60.0% from 25,000 to 40,000 over the same time period.

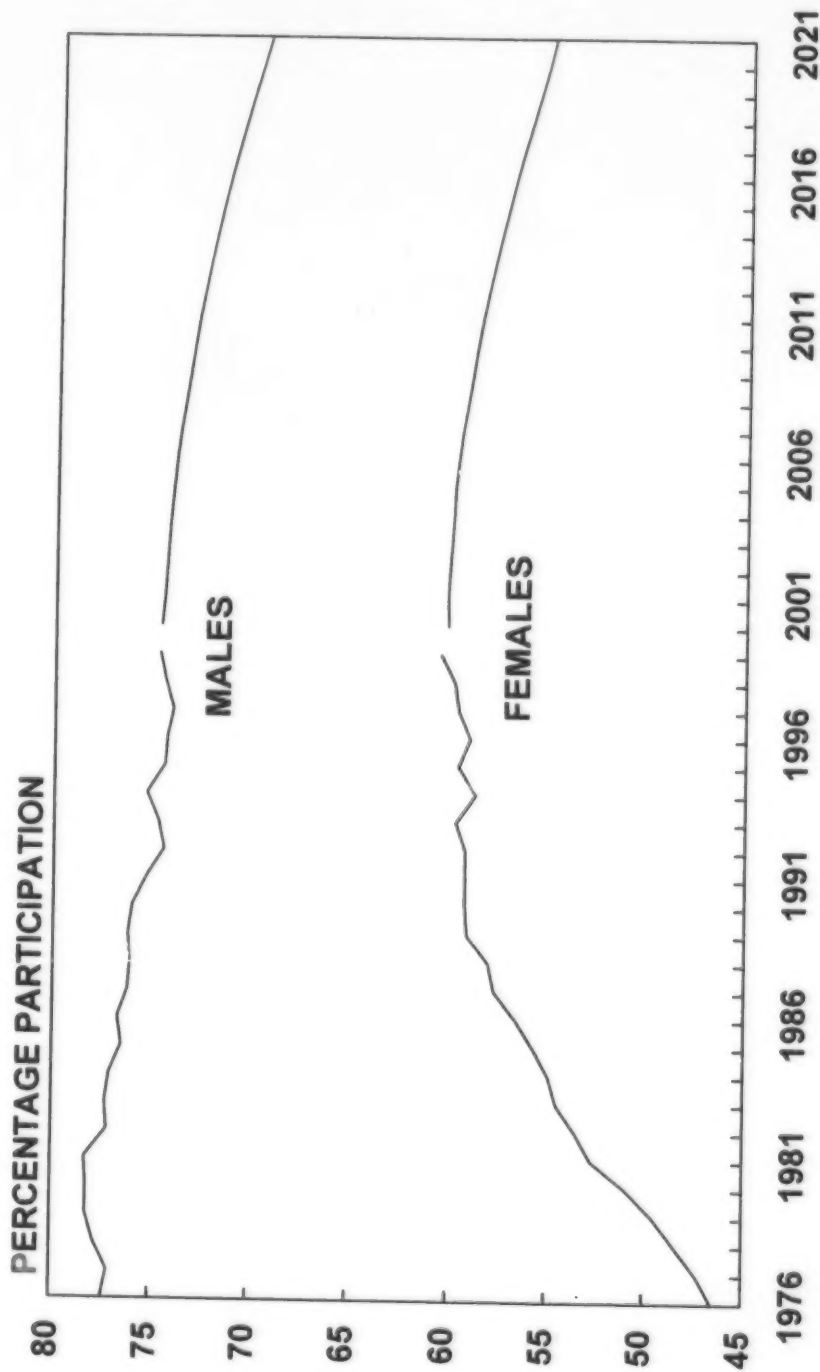
For females and males in the 45 to 54 age group, projected labour force populations increase to 2010 and then decrease to the end of the projection period. The female labour force population increases from 72,000 in 1999 to 84,000 in 2010 and then decreases to 70,000 by 2021 (an overall 2.8% decrease). The male labour force population increases from 71,000 in 1999 to 85,000 in 2010 and then decreases to 71,000 by 2021 (overall no change).

The labour force populations for males and females aged 35 to 44 are projected to decrease throughout most of the projection period. The male labour force population is projected to decrease from 87,000 in 1999 to 72,000 in 2021 (17.2%). The female labour force population in this age group is projected to decrease from 87,000 in 1999 to 73,000 in 2021 (16.1%).

Females aged 15 to 19 have an overall decrease of 11.1% in labour force population, while males aged 15 to 19 have a decrease of 10.5% overall. Males aged 20 to 24 decrease 10.8% in labour force population, while females in this age class decrease 11.1% in labour force population.

Appendix A provides detailed tables of the projected labour force population of Manitoba for males, females and both sexes, by age group.

# MANITOBA PARTICIPATION RATES BY SEX: 1976 TO 2021 HISTORICAL AND PROJECTED



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## PARTICIPATION RATES

The overall participation rate for Manitoba, estimated at 67.5% for 1999, is projected to decrease to 62.1% by 2021. Over the projection period, the female rate is projected to decrease 5.5 points, from 60.5% to 55.0%, and the male rate is projected to decrease 5.3 points, from 74.7% to 69.4%. In all age groups, the both sexes participation rate is projected to remain constant or increase marginally from 1999 to 2021.

The annual average participation rate trends for most age groups have stabilized over the last several years, so for most of the sex and age groups, average participation rates were calculated over the time period 1991 to 1999, and these were used as the projected rates. Appendix E provides a detailed explanation of the methods used to project the participation rates for all the age and sex groups.

In the 15 to 19 age group, the projected female participation rate is an average of 57.5%, 0.9 points higher than the 1999 estimated rate of 58.4%. The corresponding male projected rate is 59.3%, 0.2 points lower than the 1999 estimate of 59.5%. This age group has the smallest difference between participation rates with 97.0 females participating for every 100 males.

The 20 to 24 age group sees the female participation rate remaining constant at 78.0%, while the male participation rate is 85.9% through the entire projection period.

Females aged 25 to 29 are projected to have a constant participation rate of 80.5%, while males in the corresponding age group have a constant participation rate of 92.5%.

In the 30 to 34 age group, male participation rates are a steady 94.1%, while the projected female participation rate slowly increases to reach 81.9% by 2021.

Males aged 35 to 44 are projected to have a constant participation rate of 94.3%, while the female participation rate is projected to increase slowly and reach 84.0% by 2021.

The 45 to 54 age group sees the male participation rate remaining constant at 92.2%, while female participation rates increase slowly and reach 81.0% by 2021.

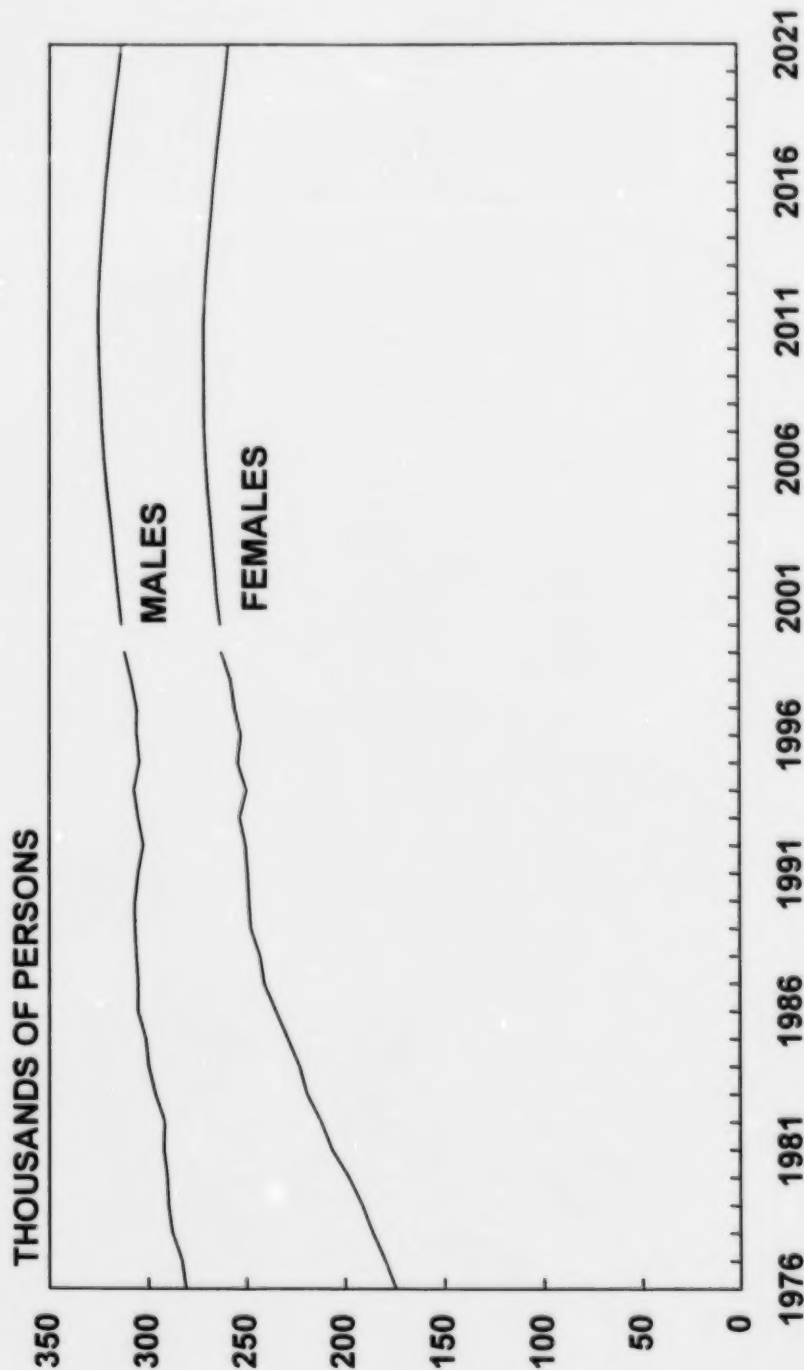
In the 55 to 59 age group, the female participation rate is a constant 54.3%, while the corresponding male participation rate is a steady 77.9%.

Members of the 60 to 64 age group, both males and females, are projected to have stable participation rates of 52.1% and 27.5% respectively.

The participation rate for females aged 70 or more is projected to be constant at 1.9%, while the rate for males in this age category is a steady 8.2%. This age group has the largest difference between participation rates for males and females, with 23.2 females participating for every 100 males.

Appendix B provides tables featuring projected participation rates for Manitoba by sex and age group, and projected female rates as a percentage of male rates. Appendix D presents this information graphically.

# **MANITOBA LABOUR FORCE BY SEX: 1976 TO 2021 HISTORICAL AND PROJECTED**



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## LABOUR FORCE

The male and female labour forces are expected to continue growing to the year 2011 and then decrease to the year 2021. The female labour force is projected to decrease 1.5% overall (from 263,000 in 1999 to 259,000 in 2021). The male labour force is projected to increase 0.6% overall (from 312,000 in 1999 to 314,000 in 2021).

The total projected labour force for the 15 to 19 age group increases from 44,000 in 1999 to 45,000 in 2010. It then decreases to 38,000 by 2021 for an overall decrease of 13.6%.

The labour force for males aged 20 to 24 is projected to increase from 32,000 to 33,000 between 1999 and 2015. It is then projected to decrease to 28,000 by 2021. Females in this age group are projected to have an increase in labour force from 28,000 to 30,000 over the period 1999 to 2013 and then decrease to 25,000 by 2021.

The labour force for 25 to 29 year olds (both sexes) is projected to increase from 64,000 in 1999 to a maximum of 65,000 in 2019 before decreasing to 63,000 by 2021 (a decrease of 1.6% overall).

In the 30 to 34 age category, the total labour force is projected to decrease from the 1999 estimate of 66,000 to a projected 62,000 in 2011 before increasing to 66,000 by the end of the projection period.

Males in the 35 to 44 age group are projected to have a decrease in labour force from an estimated 82,000 in 1999 to a projected 68,000 in 2021. The female labour force in this age category is projected to decrease 16.4% from 73,000 in 1999 to 61,000 in 2021.

The labour force for females aged 45 to 54 is projected to increase from an estimated 58,000 in 1999 to a projected 68,000 in 2010 before decreasing to 56,000 over the next eleven years. The male labour force for this group is projected to behave similarly, increasing from 66,000 in 1999 to 78,000 in 2010, followed by a decrease to 66,000 by 2021.

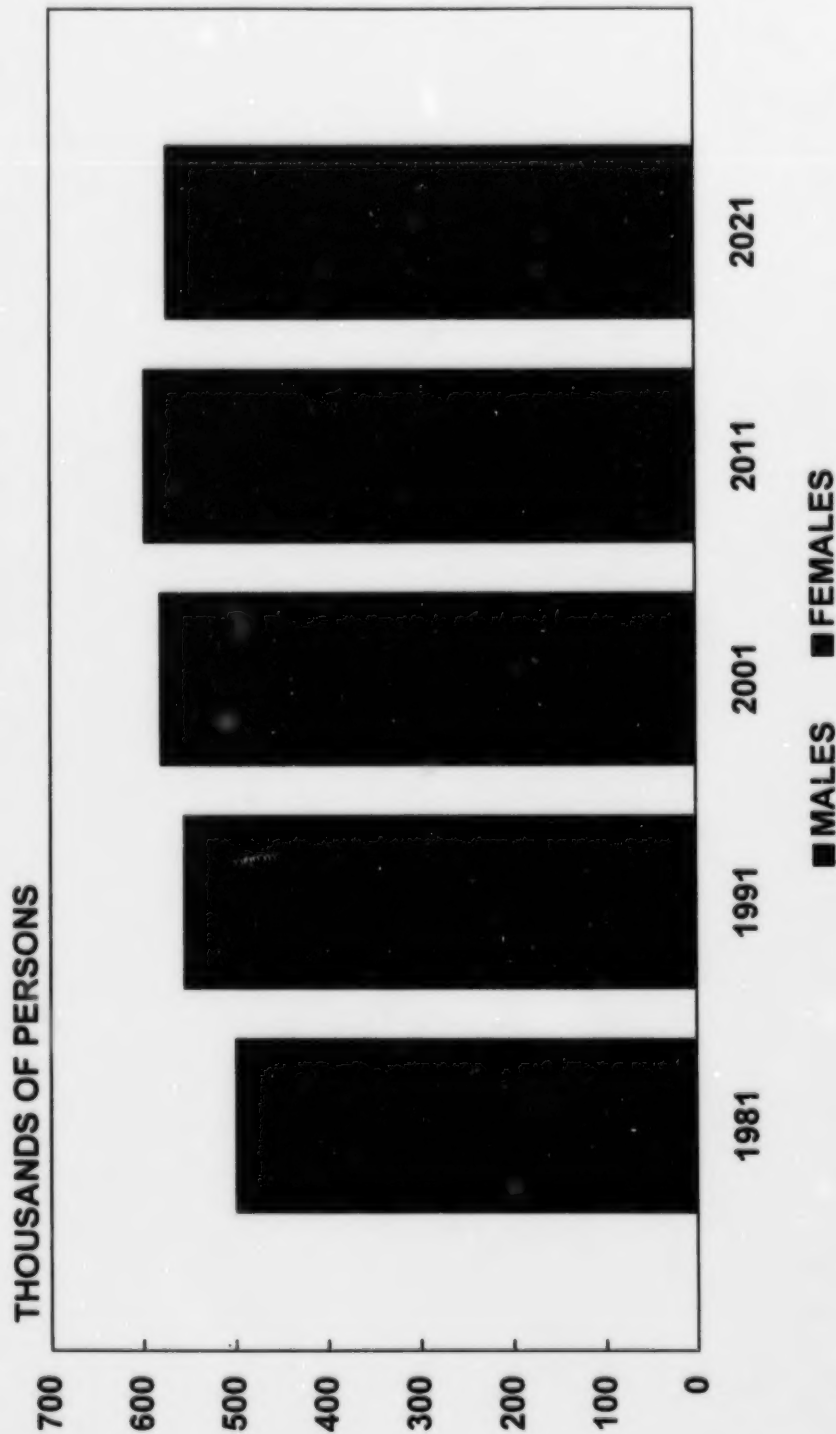
The total labour force for persons in the 55 to 59 age class is projected to increase steadily over the projection period, from 34,000 in 1999 to 53,000 in 2021, an overall increase of 55.9%.

Persons in the 60 to 64 age group are projected to have a total labour force increase of 82.4%, from an estimated 17,000 in 1999 to a projected 31,000 in 2021.

The labour force projections highlight great changes in the age group composition of Manitoba's labour force. In 1999, the 35 to 44 age group was the largest, followed by the 45 to 54 and 30 to 34 age groups. However, between 2007 and 2018, the 45 to 54 age group is projected to be the largest, followed by the 35 to 44 age group, and the 25 to 29 age group. The 55 to 59 age group is projected to surpass the 15 to 19 age group, currently sixth largest, by 2021.

Appendix C provides a series of detailed tables and charts of the projected labour force of Manitoba, by age group and sex, through 2021.

# **MANITOBA LABOUR FORCE BY SEX: 1981 TO 2021 HISTORICAL AND PROJECTED**



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Table A1. Manitoba Labour Force Population by Age Group: 1996 to 2021

Year	15 - 19	20 - 24	25 - 29	30 - 34	35 - 44	45 - 54	55 - 59	60 - 64	65 - 69	70 or more	Total
	(Population in Thousands)										
1996	36	36	36	43	85	65	23	22	22	60	429
1997	36	36	36	41	86	68	24	21	22	60	430
1998	36	36	36	39	87	70	25	21	21	61	432
1999	36	36	36	37	87	72	26	22	21	61	434
2000	37	35	36	36	87	75	27	22	21	62	438
2001	37	35	36	36	86	76	28	23	21	62	440
2002	37	36	36	36	85	77	30	23	20	62	443
2003	37	36	36	36	83	79	31	24	21	62	445
2004	38	36	36	36	82	80	33	25	21	62	448
2005	38	37	36	36	81	81	34	26	21	62	451
2006	38	37	36	36	79	82	35	27	22	62	453
2007	38	37	36	36	77	83	36	29	22	62	456
2008	38	37	36	36	76	84	36	30	23	62	458
2009	38	37	36	36	74	84	37	32	24	62	460
2010	37	38	37	36	73	84	38	33	25	62	462
2011	37	38	37	36	72	83	39	34	26	62	464
2012	36	38	37	36	72	82	39	33	27	62	465
2013	35	38	37	36	72	81	40	35	29	63	466
2014	34	38	37	36	72	79	40	36	30	63	467
2015	33	37	38	37	72	78	40	37	32	64	468
2016	33	37	38	37	72	76	41	37	33	65	468
2017	32	36	38	37	72	75	41	38	33	67	469
2018	32	35	38	37	72	73	42	39	34	68	469
2019	32	34	38	37	72	71	42	39	34	70	470
2020	32	33	37	38	73	70	41	39	35	72	470
2021	32	32	37	38	73	70	40	40	36	74	471

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Table A2. Manitoba Labour Force Population by Age Group: 1996 to 2021

Males

Year	15 - 19	20 - 24	25 - 29	30 - 34	35 - 44	45 - 54	55 - 59	60 - 64	65 - 69	70 or more	Total
	(Population in Thousands)										
1996	38	38	38	43	85	65	23	21	19	41	412
1997	38	38	38	41	86	67	23	21	19	42	414
1998	38	37	38	40	87	69	24	21	19	42	415
1999	38	37	38	38	87	71	25	21	19	43	418
2000	38	36	37	37	88	74	26	21	19	43	420
2001	38	36	37	37	87	76	27	22	19	43	423
2002	38	36	36	37	86	77	29	22	19	44	425
2003	38	37	36	37	85	78	31	23	19	44	428
2004	39	37	36	37	83	79	32	24	19	44	430
2005	39	37	36	37	82	81	33	25	20	44	433
2006	39	37	36	36	80	82	34	26	20	44	435
2007	39	37	36	36	79	84	35	28	20	45	438
2008	39	37	36	36	77	85	35	29	21	45	440
2009	39	38	36	36	76	85	36	30	22	45	442
2010	39	38	36	35	74	85	37	32	23	45	444
2011	38	38	36	35	74	84	38	33	24	45	446
2012	38	38	37	35	74	83	38	33	26	46	447
2013	37	38	37	35	73	82	39	33	27	46	448
2014	36	38	37	36	73	81	40	34	28	47	449
2015	35	38	37	36	73	79	40	35	29	48	450
2016	34	37	37	36	72	78	41	36	30	49	450
2017	34	37	37	36	72	76	41	37	30	51	451
2018	34	36	38	36	72	74	41	37	31	53	451
2019	34	35	38	36	72	73	42	38	31	54	451
2020	34	34	37	37	72	72	41	38	32	56	452
2021	34	33	37	37	72	71	40	39	33	57	452

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## Both Sexes

Table A3. Manitoba Labour Force Population by Age Group: 1996 to 2021

Year	15 - 19	20 - 24	25 - 29	30 - 34	35 - 44	45 - 54	55 - 59	60 - 64	65 - 69	70 or more	Total
	(Population in Thousands)										
1996	74	74	74	86	171	130	46	43	41	101	840
1997	74	74	74	82	173	135	47	42	41	102	844
1998	74	73	74	78	174	139	49	42	41	103	846
1999	74	73	74	75	174	143	51	43	40	104	852
2000	75	72	73	74	175	148	53	43	40	105	858
2001	75	72	73	73	173	152	55	44	40	105	863
2002	76	72	72	73	171	154	59	46	40	106	868
2003	76	73	72	73	168	156	62	47	40	106	873
2004	76	73	72	73	165	159	65	49	40	106	878
2005	77	74	71	73	162	162	68	51	41	106	884
2006	77	74	71	72	159	165	70	53	42	106	889
2007	77	74	72	72	156	167	70	56	43	106	894
2008	77	75	72	71	153	169	71	60	44	106	898
2009	77	75	72	71	149	170	73	62	46	106	902
2010	76	75	73	71	147	169	75	65	48	107	906
2011	75	76	73	71	146	168	76	67	49	107	910
2012	74	76	74	71	146	166	78	68	53	108	912
2013	72	76	74	71	145	163	79	68	56	109	914
2014	70	76	74	72	145	160	80	70	58	110	916
2015	68	75	75	73	144	157	81	72	61	112	917
2016	67	74	75	73	144	154	82	73	63	114	918
2017	66	72	75	73	144	151	83	75	63	117	920
2018	66	71	76	74	144	147	83	76	64	121	921
2019	66	69	75	74	144	144	83	76	66	124	921
2020	66	67	74	74	144	142	82	77	67	128	922
2021	66	65	73	75	145	141	80	78	69	131	923

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Table B1. Manitoba Participation Rates by Age Group: 1996 to 2021

Females

Year	15 - 19	20 - 24	25 - 29	30 - 34	35 - 44	45 - 54	55 - 59	60 - 64	65 - 69	70 or more	Total
	(Percentage Participation)										
1996	56.9	77.1	78.3	78.1	82.7	79.7	52.6	24.4	7.8	1.0	59.0
1997	57.8	76.9	79.6	78.0	82.8	79.0	53.3	29.0	9.7	1.8	59.6
1998	54.4	78.0	78.2	80.7	82.5	79.7	58.5	27.1	9.9	2.3	59.8
1999	58.4	77.6	79.8	81.5	84.0	80.9	54.5	26.7	9.1	1.8	60.5
2000	58.0	77.8	80.1	80.7	83.5	80.2	54.3	27.1	8.8	1.9	60.2
2001	57.5	78.0	80.5	80.9	83.6	80.4	54.3	27.5	8.8	1.9	60.2
2002	57.5	78.0	80.5	81.0	83.6	80.5	54.3	27.5	8.8	1.9	60.1
2003	57.5	78.0	80.5	81.2	83.7	80.5	54.3	27.5	8.8	1.9	60.0
2004	57.5	78.0	80.5	81.3	83.7	80.6	54.3	27.5	8.8	1.9	59.9
2005	57.5	78.0	80.5	81.4	83.8	80.7	54.3	27.5	8.8	1.9	59.9
2006	57.5	78.0	80.5	81.4	83.8	80.7	54.3	27.5	8.8	1.9	59.7
2007	57.5	78.0	80.5	81.5	83.9	80.8	54.3	27.5	8.8	1.9	59.6
2008	57.5	78.0	80.5	81.6	83.9	80.8	54.3	27.5	8.8	1.9	59.3
2009	57.5	78.0	80.5	81.6	83.9	80.8	54.3	27.5	8.8	1.9	59.1
2010	57.5	78.0	80.5	81.7	83.9	80.9	54.3	27.5	8.8	1.9	58.9
2011	57.5	78.0	80.5	81.7	83.9	80.9	54.3	27.5	8.8	1.9	58.6
2012	57.5	78.0	80.5	81.7	83.9	80.9	54.3	27.5	8.8	1.9	58.3
2013	57.5	78.0	80.5	81.8	84.0	80.9	54.3	27.5	8.8	1.9	58.0
2014	57.5	78.0	80.5	81.8	84.0	80.9	54.3	27.5	8.8	1.9	57.7
2015	57.5	78.0	80.5	81.8	84.0	80.9	54.3	27.5	8.8	1.9	57.3
2016	57.5	78.0	80.5	81.9	84.0	81.0	54.3	27.5	8.8	1.9	57.0
2017	57.5	78.0	80.5	81.9	84.0	81.0	54.3	27.5	8.8	1.9	56.6
2018	57.5	78.0	80.5	81.9	84.0	81.0	54.3	27.5	8.8	1.9	56.2
2019	57.5	78.0	80.5	81.9	84.0	81.0	54.3	27.5	8.8	1.9	55.8
2020	57.5	78.0	80.5	81.9	84.0	81.0	54.3	27.5	8.8	1.9	55.4
2021	57.5	78.0	80.5	81.9	84.0	81.0	54.3	27.5	8.8	1.9	55.0

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Table B2. Manitoba Participation Rates by Age Group: 1996 to 2021

Year	15 - 19	20 - 24	25 - 29	30 - 34	35 - 44	45 - 54	55 - 59	60 - 64	65 - 69	70 or more	Total
	(Percentage Participation)										
1996	59.3	86.3	92.6	94.7	94.4	91.1	76.8	48.6	19.1	9.2	74.3
1997	58.9	86.5	92.6	94.4	94.6	92.3	70.9	47.4	20.6	7.2	74.0
1998	59.3	85.6	92.5	93.4	94.5	92.2	77.2	51.2	23.3	7.3	74.4
1999	59.5	86.3	93.4	94.5	93.5	92.0	79.4	52.4	24.4	8.2	74.7
2000	59.3	85.9	92.5	94.1	94.3	92.2	78.7	52.1	23.5	8.2	74.6
2001	59.3	85.9	92.5	94.1	94.3	92.2	77.9	52.1	22.6	8.2	74.5
2002	59.3	85.9	92.5	94.1	94.3	92.2	77.9	52.1	22.6	8.2	74.4
2003	59.3	85.9	92.5	94.1	94.3	92.2	77.9	52.1	22.6	8.2	74.3
2004	59.3	85.9	92.5	94.1	94.3	92.2	77.9	52.1	22.6	8.2	74.2
2005	59.3	85.9	92.5	94.1	94.3	92.2	77.9	52.1	22.6	8.2	74.1
2006	59.3	85.9	92.5	94.1	94.3	92.2	77.9	52.1	22.6	8.2	74.0
2007	59.3	85.9	92.5	94.1	94.3	92.2	77.9	52.1	22.6	8.2	73.8
2008	59.3	85.9	92.5	94.1	94.3	92.2	77.9	52.1	22.6	8.2	73.6
2009	59.3	85.9	92.5	94.1	94.3	92.2	77.9	52.1	22.6	8.2	73.4
2010	59.3	85.9	92.5	94.1	94.3	92.2	77.9	52.1	22.6	8.2	73.1
2011	59.3	85.9	92.5	94.1	94.3	92.2	77.9	52.1	22.6	8.2	72.9
2012	59.3	85.9	92.5	94.1	94.3	92.2	77.9	52.1	22.6	8.2	72.6
2013	59.3	85.9	92.5	94.1	94.3	92.2	77.9	52.1	22.6	8.2	72.4
2014	59.3	85.9	92.5	94.1	94.3	92.2	77.9	52.1	22.6	8.2	72.1
2015	59.3	85.9	92.5	94.1	94.3	92.2	77.9	52.1	22.6	8.2	71.7
2016	59.3	85.9	92.5	94.1	94.3	92.2	77.9	52.1	22.6	8.2	71.4
2017	59.3	85.9	92.5	94.1	94.3	92.2	77.9	52.1	22.6	8.2	71.0
2018	59.3	85.9	92.5	94.1	94.3	92.2	77.9	52.1	22.6	8.2	70.6
2019	59.3	85.9	92.5	94.1	94.3	92.2	77.9	52.1	22.6	8.2	70.2
2020	59.3	85.9	92.5	94.1	94.3	92.2	77.9	52.1	22.6	8.2	69.8
2021	59.3	85.9	92.5	94.1	94.3	92.2	77.9	52.1	22.6	8.2	69.4

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Table B3. Manitoba Participation Rates by Age Group: 1996 to 2021

Year	15 - 19	20 - 24	25 - 29	30 - 34	35 - 44	45 - 54	55 - 59	60 - 64	65 - 69	70 or more	Total
	(Percentage Participation)										
1996	58.2	81.8	85.5	86.4	88.5	85.4	64.5	36.4	13.1	4.4	66.5
1997	58.3	81.8	86.2	86.3	88.7	85.6	62.0	38.1	14.9	4.0	66.6
1998	56.9	81.9	85.5	87.1	88.5	85.9	67.7	39.0	16.3	4.4	67.0
1999	59.0	82.0	86.7	88.0	88.8	86.4	66.8	39.3	16.4	4.4	67.5
2000	58.7	81.9	86.4	87.5	88.9	86.2	66.4	39.4	15.9	4.5	67.3
2001	58.4	82.0	86.6	87.6	89.0	86.3	66.0	39.5	15.5	4.5	67.2
2002	58.4	82.0	86.6	87.6	89.0	86.3	66.0	39.5	15.5	4.5	67.1
2003	58.4	82.0	86.6	87.7	89.0	86.3	66.0	39.5	15.5	4.5	67.0
2004	58.4	82.0	86.5	87.8	89.0	86.4	65.9	39.6	15.4	4.5	66.9
2005	58.4	82.0	86.5	87.8	89.1	86.4	65.9	39.6	15.4	4.5	66.9
2006	58.4	82.0	86.5	87.8	89.1	86.5	65.9	39.6	15.4	4.5	66.7
2007	58.4	82.0	86.5	87.8	89.1	86.5	65.9	39.6	15.4	4.5	66.5
2008	58.4	82.0	86.5	87.9	89.1	86.5	65.9	39.6	15.4	4.5	66.3
2009	58.4	82.0	86.5	87.8	89.2	86.5	65.9	39.5	15.4	4.6	66.1
2010	58.4	82.0	86.5	87.9	89.2	86.6	65.9	39.5	15.5	4.6	65.9
2011	58.4	82.0	86.4	87.9	89.2	86.6	66.0	39.5	15.4	4.6	65.6
2012	58.4	82.0	86.5	87.9	89.1	86.6	66.0	39.5	15.4	4.6	65.3
2013	58.4	82.0	86.4	87.9	89.2	86.6	66.0	39.5	15.4	4.6	65.0
2014	58.4	82.0	86.4	87.9	89.2	86.6	66.0	39.5	15.4	4.6	64.7
2015	58.4	82.0	86.5	87.9	89.2	86.6	66.1	39.5	15.4	4.6	64.4
2016	58.4	82.0	86.5	87.9	89.2	86.7	66.1	39.5	15.4	4.6	64.1
2017	58.4	82.0	86.4	87.9	89.2	86.7	66.1	39.5	15.4	4.6	63.7
2018	58.4	82.0	86.5	87.9	89.1	86.7	66.1	39.6	15.4	4.6	63.3
2019	58.4	82.0	86.5	87.9	89.1	86.7	66.1	39.6	15.4	4.6	62.9
2020	58.4	82.0	86.5	87.9	89.1	86.7	66.1	39.6	15.4	4.7	62.5
2021	58.4	82.0	86.5	87.9	89.1	86.7	66.1	39.7	15.4	4.7	62.1

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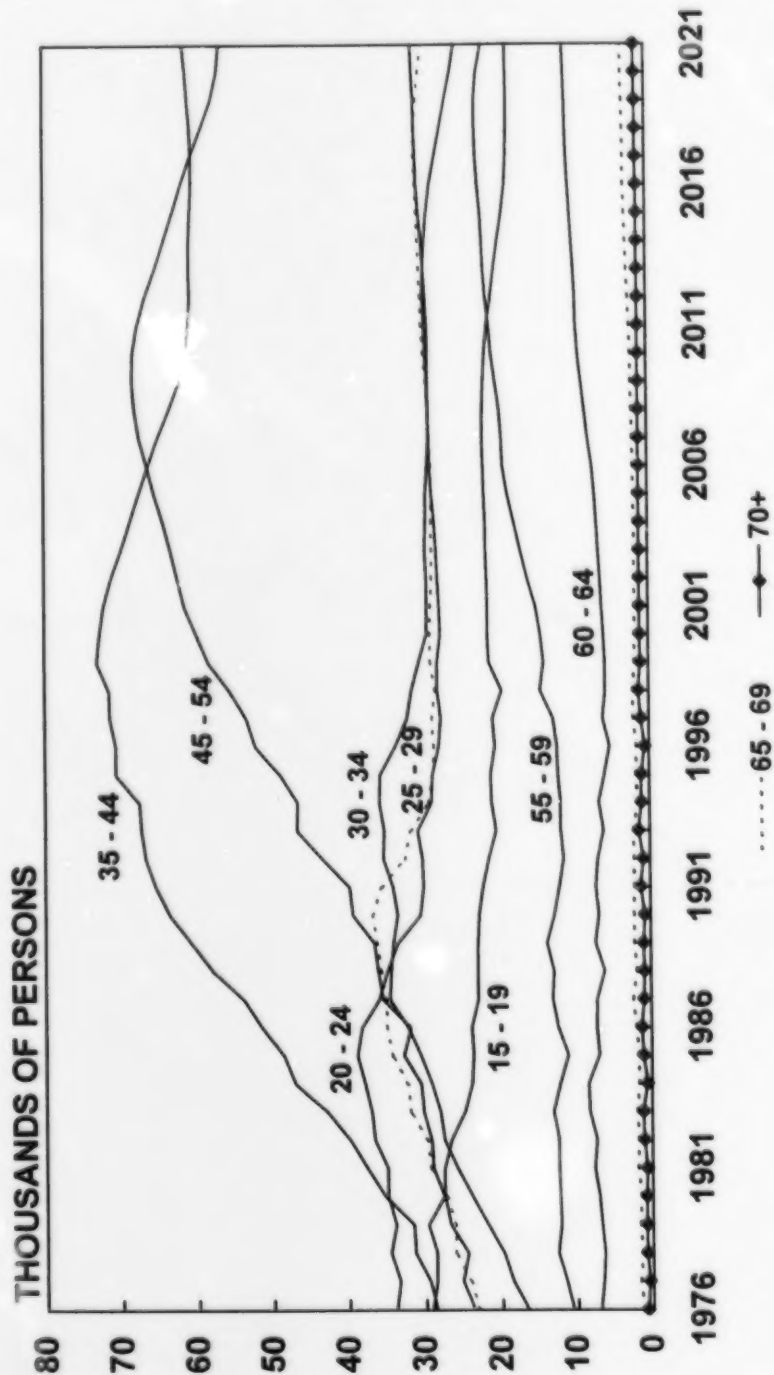
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Table B4. Manitoba Female Participation Rates as a Percentage of Male Rates: 1996 to 2021

Year	15 - 19	20 - 24	25 - 29	30 - 34	35 - 44	45 - 54	55 - 59	60 - 64	65 - 69	70 or more	Total
	(Percent)										
1996	96.0	89.3	84.6	82.5	87.6	87.5	68.5	50.2	40.8	10.9	79.4
1997	98.1	88.9	86.0	82.6	87.5	85.6	75.2	61.2	47.1	25.0	80.5
1998	91.7	91.1	84.5	86.4	87.3	86.4	75.8	52.9	42.5	31.5	80.4
1999	98.2	89.9	85.4	86.2	89.8	87.9	68.6	51.0	37.3	22.0	81.0
2000	97.8	90.6	86.6	85.8	88.5	87.0	69.0	52.0	37.4	23.2	80.6
2001	97.0	90.8	87.0	86.0	88.7	87.2	69.7	52.8	38.9	23.2	80.8
2002	97.0	90.8	87.0	86.1	88.7	87.3	69.7	52.8	38.9	23.2	80.8
2003	97.0	90.8	87.0	86.3	88.8	87.3	69.7	52.8	38.9	23.2	80.7
2004	97.0	90.8	87.0	86.4	88.8	87.4	69.7	52.8	38.9	23.2	80.8
2005	97.0	90.8	87.0	86.5	88.9	87.5	69.7	52.8	38.9	23.2	80.7
2006	97.0	90.8	87.0	86.5	88.9	87.5	69.7	52.8	38.9	23.2	80.7
2007	97.0	90.8	87.0	86.6	89.0	87.6	69.7	52.8	38.9	23.2	80.6
2008	97.0	90.8	87.0	86.7	89.0	87.6	69.7	52.8	38.9	23.2	80.5
2009	97.0	90.8	87.0	86.7	89.0	87.6	69.7	52.8	38.9	23.2	80.5
2010	97.0	90.8	87.0	86.8	89.0	87.7	69.7	52.8	38.9	23.2	80.4
2011	97.0	90.8	87.0	86.8	89.0	87.7	69.7	52.8	38.9	23.2	80.3
2012	97.0	90.8	87.0	86.8	89.0	87.7	69.7	52.8	38.9	23.2	80.2
2013	97.0	90.8	87.0	86.9	89.1	87.7	69.7	52.8	38.9	23.2	80.0
2014	97.0	90.8	87.0	86.9	89.1	87.7	69.7	52.8	38.9	23.2	79.9
2015	97.0	90.8	87.0	86.9	89.1	87.7	69.7	52.8	38.9	23.2	79.8
2016	97.0	90.8	87.0	87.0	89.1	87.9	69.7	52.8	38.9	23.2	79.7
2017	97.0	90.8	87.0	87.0	89.1	87.9	69.7	52.8	38.9	23.2	79.6
2018	97.0	90.8	87.0	87.0	89.1	87.9	69.7	52.8	38.9	23.2	79.5
2019	97.0	90.8	87.0	87.0	89.1	87.9	69.7	52.8	38.9	23.2	79.4
2020	97.0	90.8	87.0	87.0	89.1	87.9	69.7	52.8	38.9	23.2	79.3
2021	97.0	90.8	87.0	87.0	89.1	87.9	69.7	52.8	38.9	23.2	79.3

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# **MANITOBA FEMALE LABOUR FORCE BY AGE GROUP: 1976 TO 2021 HISTORICAL AND PROJECTED**



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Females

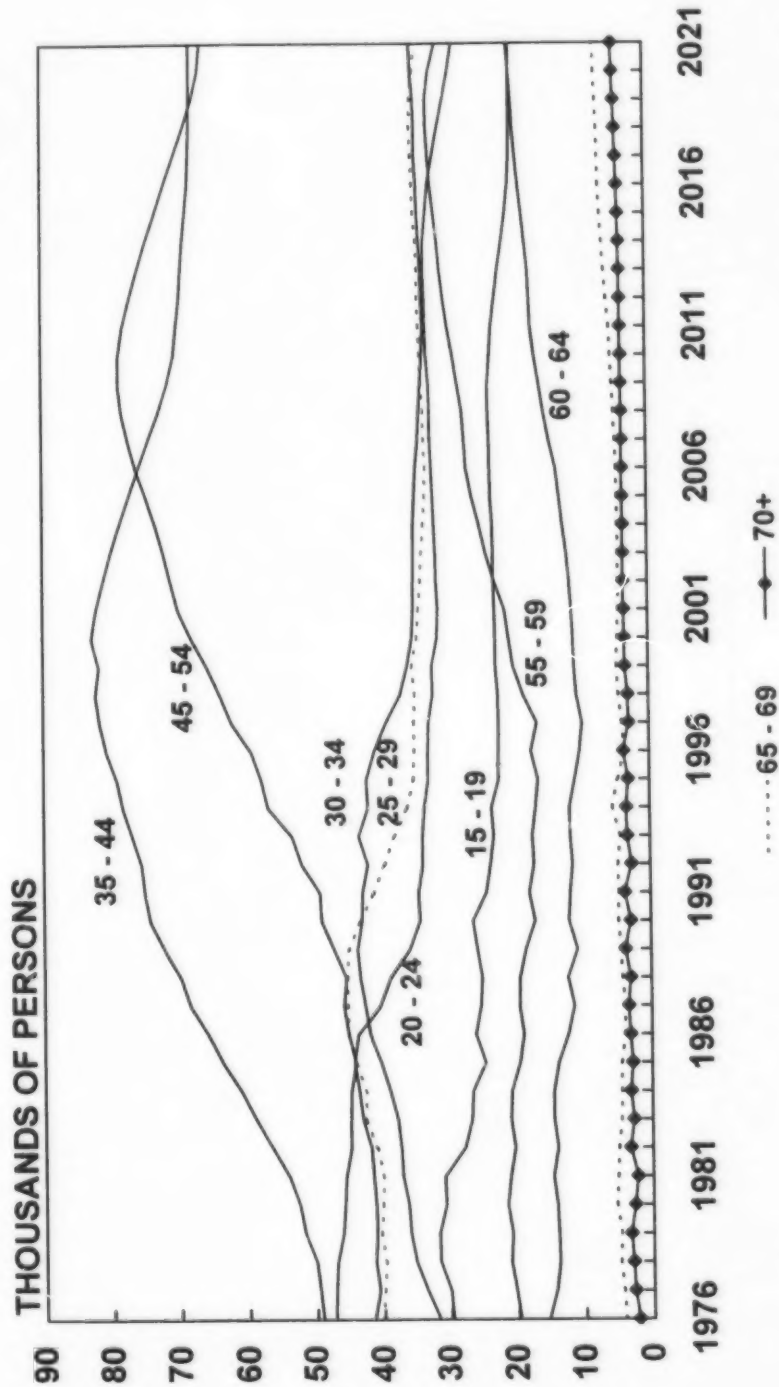
Table C1. Manitoba Labour Force by Age Group: 1996 to 2021

Year	15 - 19	20 - 24	25 - 29	30 - 34	35 - 44	45 - 54	55 - 59	60 - 64	65 - 69	70 or more	Total
	(Labour Force in Thousands)										
1996	21	28	29	34	71	52	12	5	2	1	253
1997	21	28	29	32	71	53	13	6	2	1	256
1998	20	28	28	31	72	56	15	6	2	1	258
1999	21	28	29	30	73	58	14	6	2	1	263
2000	21	28	29	29	73	60	14	6	2	1	263
2001	21	28	29	29	72	61	15	6	2	1	265
2002	21	28	29	29	71	62	16	6	2	1	266
2003	22	28	29	30	70	63	17	7	2	1	267
2004	22	28	29	29	69	64	18	7	2	1	269
2005	22	29	29	29	67	65	19	7	2	1	270
2006	22	29	29	29	66	66	19	7	2	1	271
2007	22	29	29	29	65	67	19	8	2	1	271
2008	22	29	29	29	63	68	20	8	2	1	272
2009	22	29	29	29	62	68	20	9	2	1	272
2010	22	29	30	29	61	68	21	9	2	1	272
2011	21	29	30	29	61	68	21	9	2	1	272
2012	21	30	30	29	61	67	21	10	2	1	271
2013	20	30	30	29	61	65	22	10	3	1	270
2014	20	29	30	30	61	64	22	10	3	1	269
2015	19	29	30	30	60	63	22	10	3	1	268
2016	19	29	30	30	60	62	22	10	3	1	267
2017	19	28	31	30	60	60	22	10	3	1	265
2018	18	27	31	31	60	59	23	11	3	1	264
2019	18	27	30	31	61	58	23	11	3	1	262
2020	18	26	30	31	61	57	22	11	3	1	261
2021	18	25	30	31	61	56	22	11	3	1	259

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# **MANITOBA MALE LABOUR FORCE BY AGE GROUP: 1976 TO 2021 HISTORICAL AND PROJECTED**



MAY 2000

MANITOBA BUREAU OF STATISTICS



Males

Table C2. Manitoba Labour Force by Age Group: 1996 to 2021

Year	15 - 19	20 - 24	25 - 29	30 - 34	35 - 44	45 - 54	55 - 59	60 - 64	65 - 69	70 or more	Total
	(Labour Force in Thousands)										
1996	22	33	35	41	81	59	18	10	4	4	306
1997	22	33	35	39	82	62	17	10	4	3	306
1998	22	32	35	37	82	64	19	11	5	3	309
1999	23	32	35	36	82	66	20	11	5	4	312
2000	23	31	34	35	83	68	21	11	5	4	314
2001	23	31	34	35	82	70	21	11	4	4	315
2002	23	31	34	35	81	71	23	12	4	4	317
2003	23	31	33	35	80	72	24	12	4	4	318
2004	23	32	33	35	79	73	25	13	4	4	319
2005	23	32	33	35	77	74	26	13	4	4	321
2006	23	32	33	34	76	76	27	13	5	4	322
2007	23	32	33	34	74	77	27	14	5	4	323
2008	23	32	33	34	73	78	27	15	5	4	324
2009	23	32	33	33	71	78	28	16	5	4	325
2010	23	33	34	33	70	78	29	17	5	4	325
2011	23	33	34	33	70	78	29	17	5	4	325
2012	22	33	34	33	69	77	30	17	6	4	325
2013	22	33	34	33	69	76	31	17	6	4	324
2014	21	33	34	34	69	74	31	18	6	4	324
2015	21	33	34	34	68	73	31	18	7	4	323
2016	20	32	34	34	68	72	32	19	7	4	321
2017	20	31	35	34	68	70	32	19	7	4	320
2018	20	31	35	34	68	69	32	19	7	4	319
2019	20	30	35	34	68	67	32	20	7	4	317
2020	20	29	34	35	68	66	32	20	7	5	315
2021	20	28	34	35	68	66	31	20	7	5	314

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Table C3. Manitoba Labour Force by Age Group: 1996 to 2021

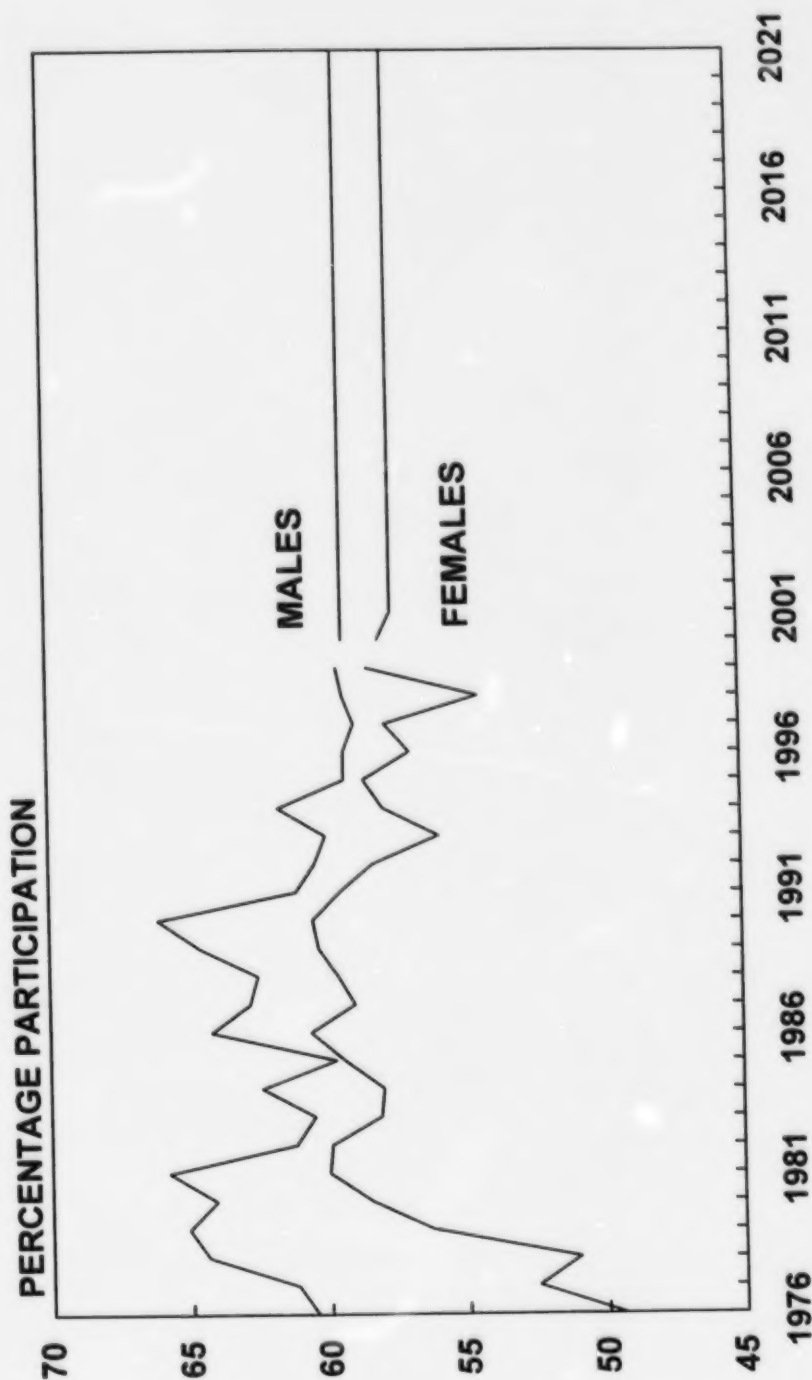
Both Sexes

Year	15 - 19	20 - 24	25 - 29	30 - 34	35 - 44	45 - 54	55 - 59	60 - 64	65 - 69	70 or more	Total
	(Labour Force in Thousands)										
1996	43	61	63	75	151	111	30	16	5	4	559
1997	43	60	64	71	153	115	29	16	6	4	562
1998	42	60	63	68	154	119	33	17	7	5	567
1999	44	60	64	66	155	124	34	17	7	5	575
2000	44	59	63	64	155	128	35	17	6	5	577
2001	44	59	63	64	154	131	36	18	6	5	580
2002	44	59	62	64	152	133	39	18	6	5	583
2003	44	59	62	64	150	135	41	19	6	5	585
2004	44	60	62	64	147	137	43	19	6	5	588
2005	45	60	62	64	145	140	45	20	6	5	591
2006	45	61	62	63	142	142	46	21	6	5	593
2007	45	61	62	63	139	144	46	22	7	5	595
2008	45	61	62	63	136	146	47	24	7	5	595
2009	45	61	63	63	133	147	48	25	7	5	596
2010	45	62	63	62	131	147	49	26	7	5	597
2011	44	62	64	62	131	145	50	26	8	5	597
2012	43	62	64	63	130	143	51	27	8	5	596
2013	42	62	64	63	130	141	52	27	9	5	595
2014	41	62	64	63	129	138	53	28	9	5	593
2015	40	62	65	64	129	136	53	28	9	5	591
2016	39	61	65	64	128	133	54	29	10	5	588
2017	39	59	65	65	128	131	55	30	10	5	585
2018	38	58	65	65	128	128	55	30	10	6	582
2019	38	56	65	65	128	125	55	30	10	6	579
2020	38	55	64	65	129	123	54	31	10	6	576
2021	38	54	63	66	129	122	53	31	11	6	573

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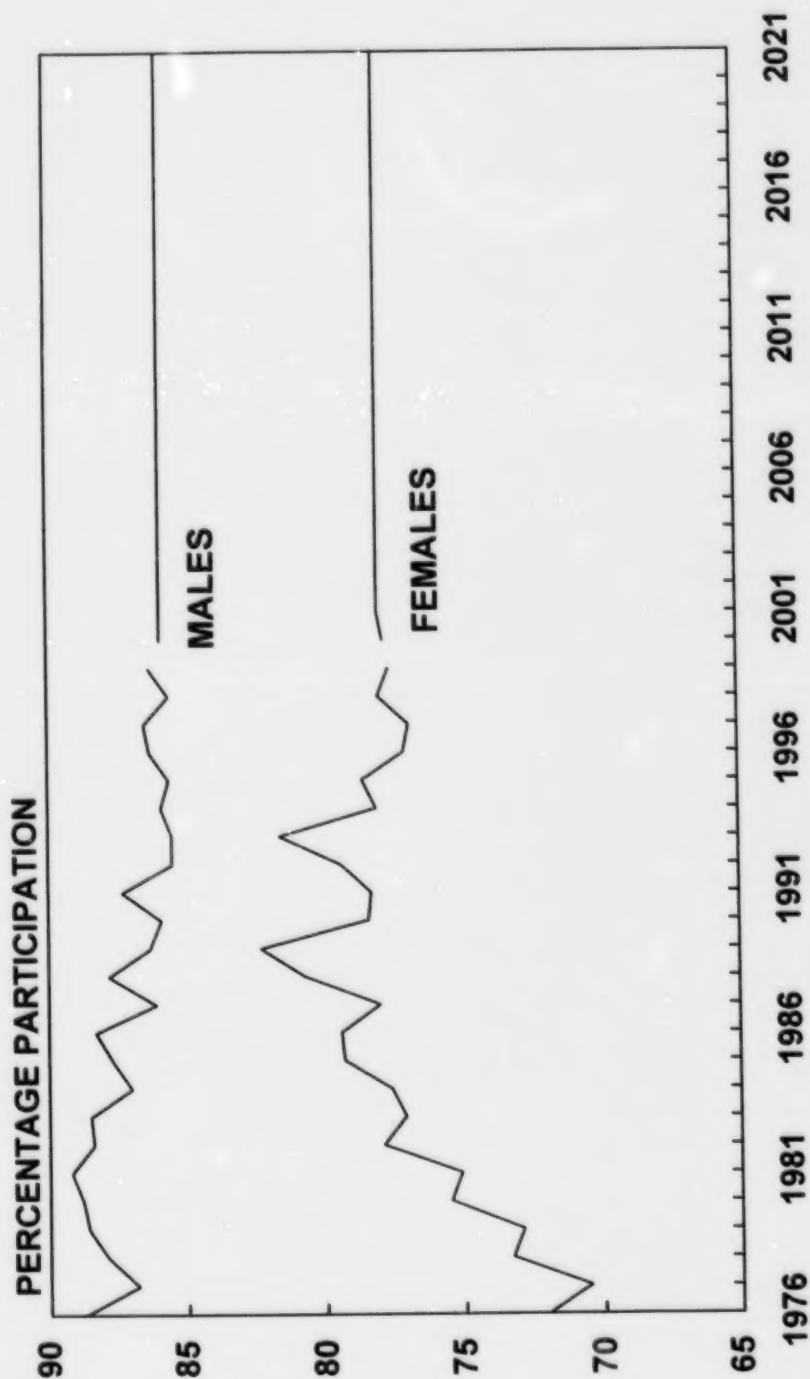
# **MANITOBA PARTICIPATION RATES AGES 15 - 19: 1976 TO 2021 HISTORICAL AND PROJECTED**



MANITOBA BUREAU OF STATISTICS

MAY 2000

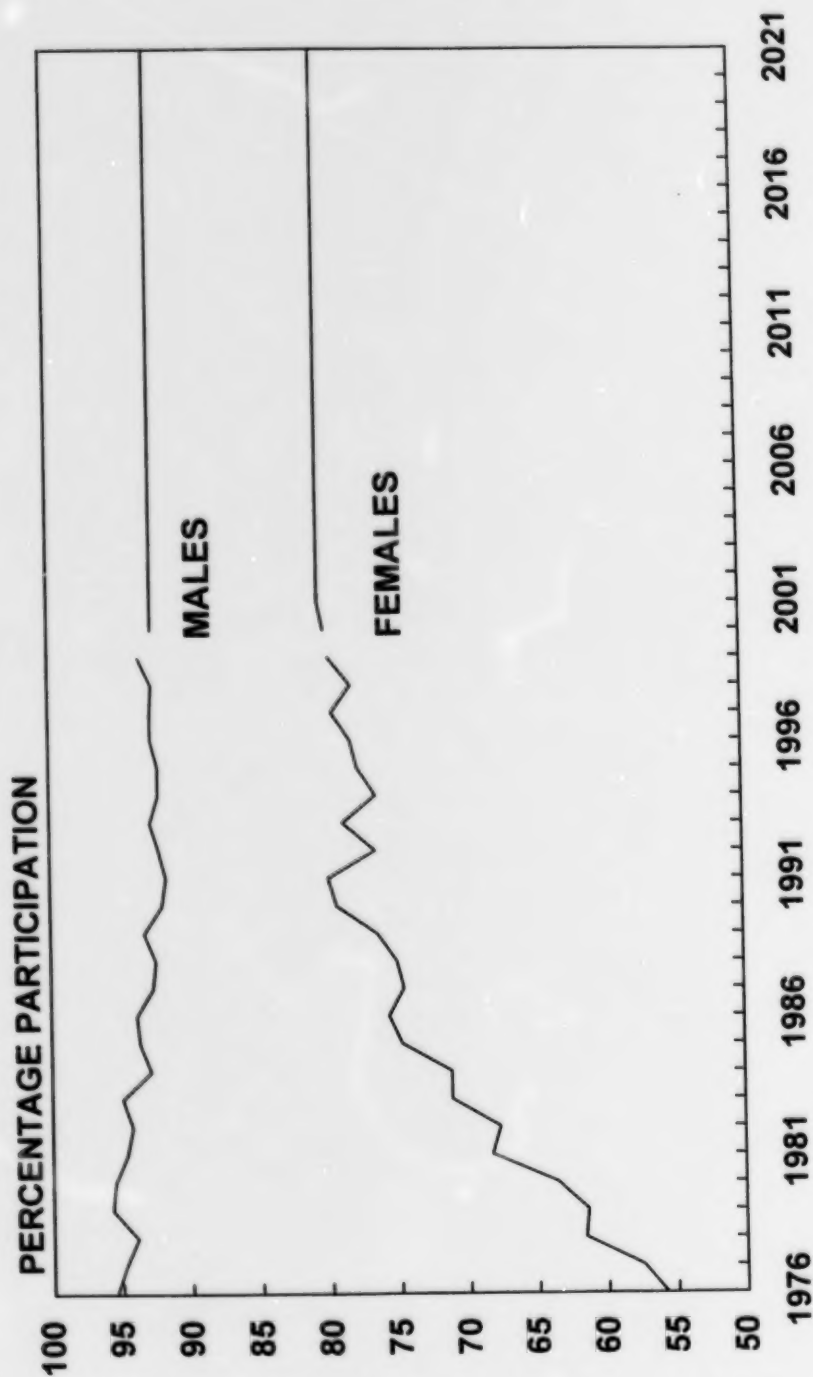
# **MANITOBA PARTICIPATION RATES AGES 20 - 24: 1976 TO 2021 HISTORICAL AND PROJECTED**



MAY 2000

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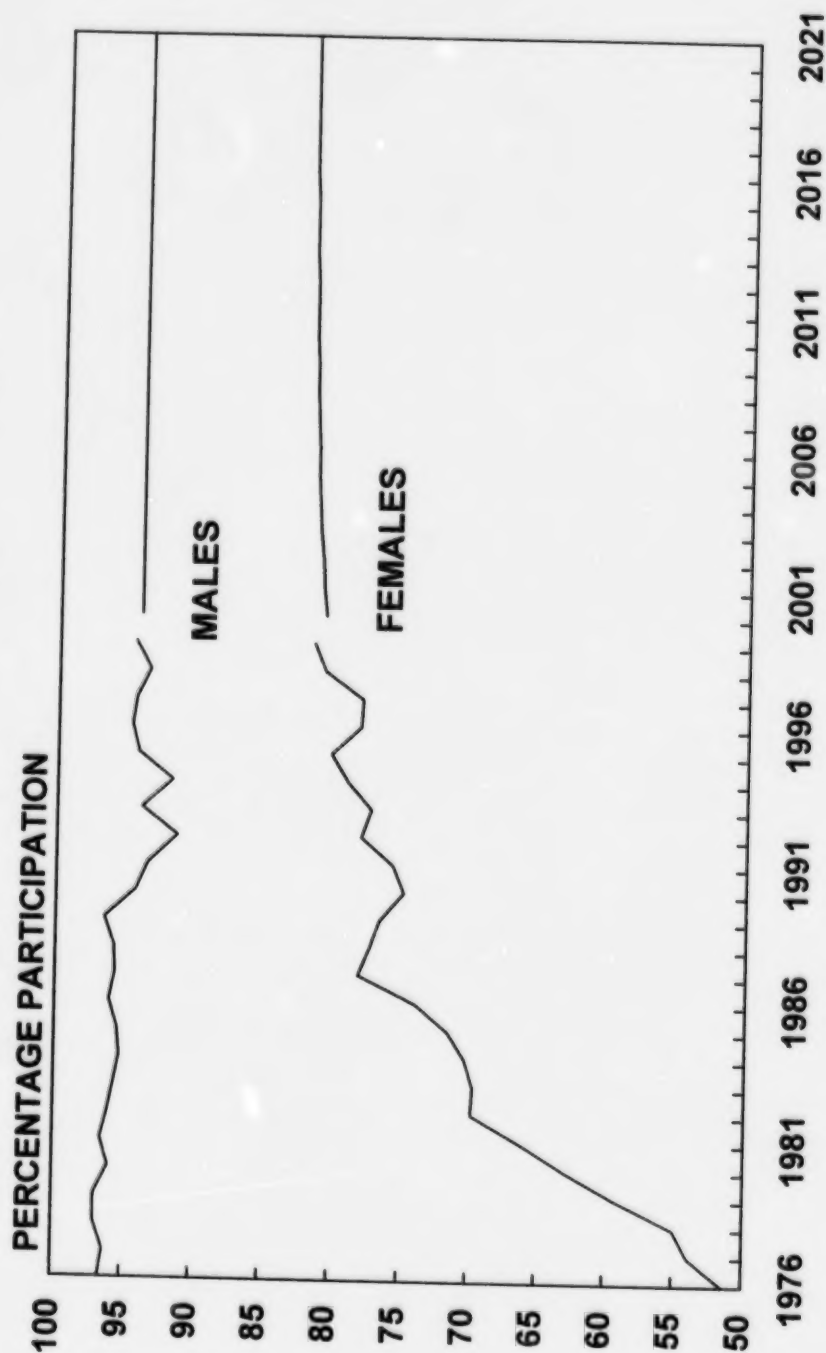
# **MANITOBA PARTICIPATION RATES AGES 25 - 29: 1976 TO 2021 HISTORICAL AND PROJECTED**



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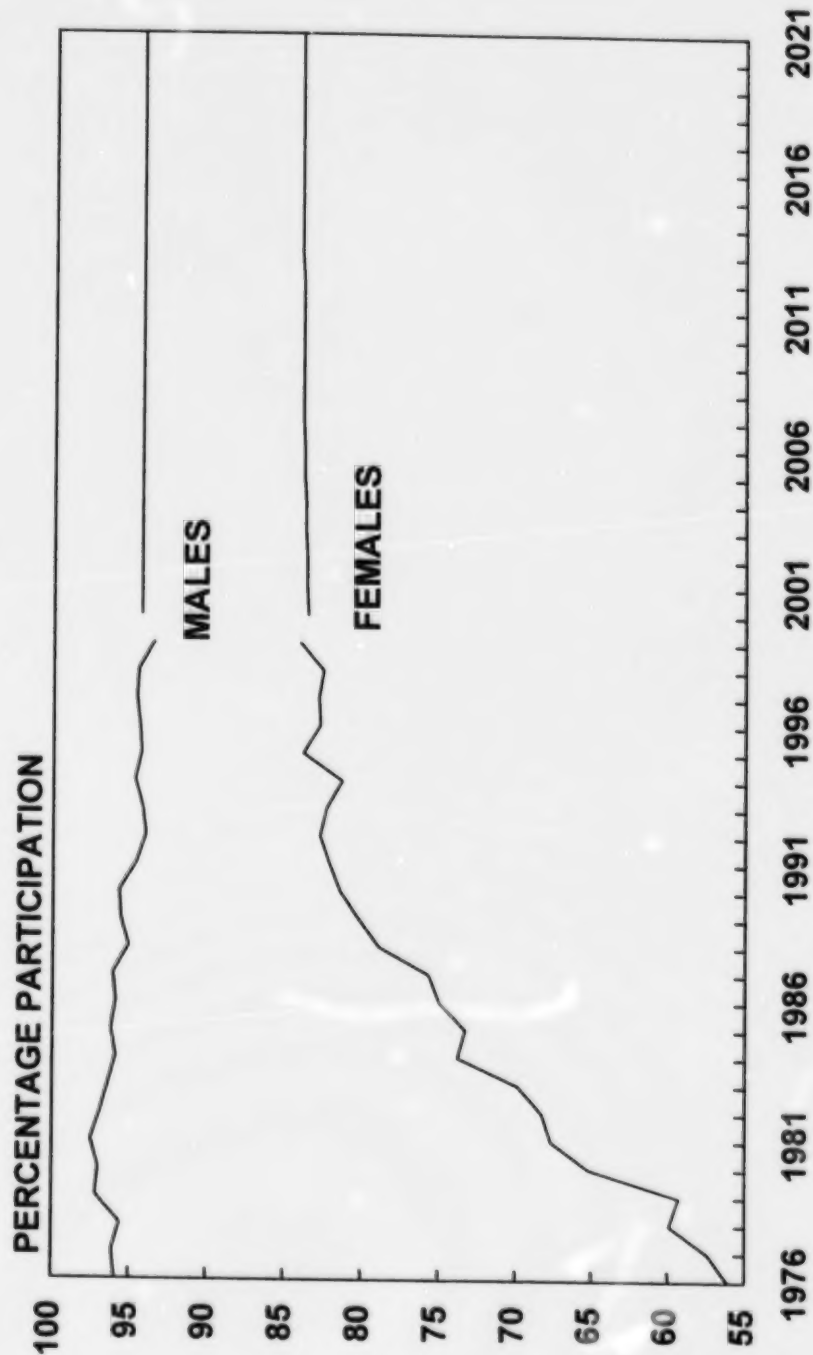
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MAY 2000

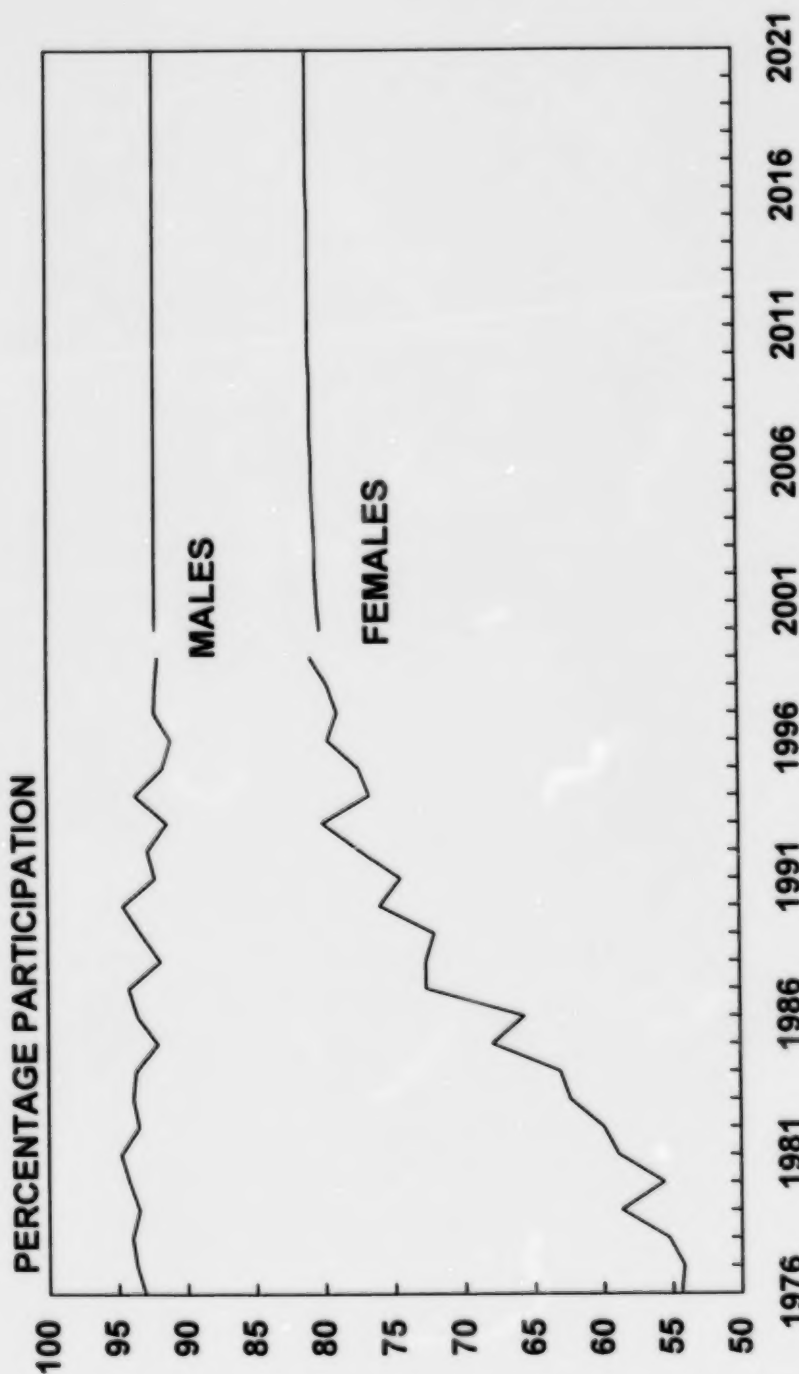
# **MANITOBA PARTICIPATION RATES AGES 35 - 44: 1976 TO 2021 HISTORICAL AND PROJECTED**



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# **MANITOBA PARTICIPATION RATES AGES 45 - 54: 1976 TO 2021 HISTORICAL AND PROJECTED**

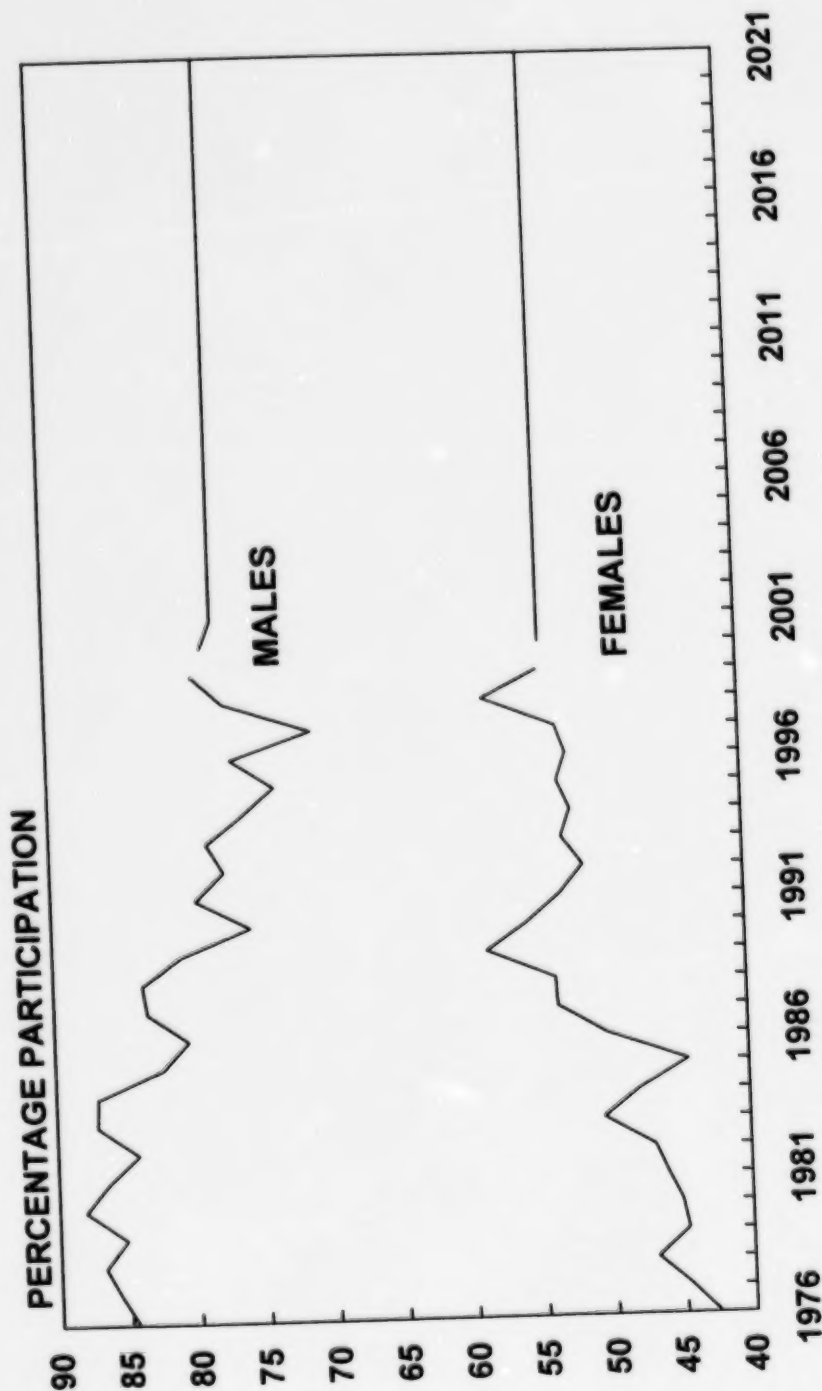


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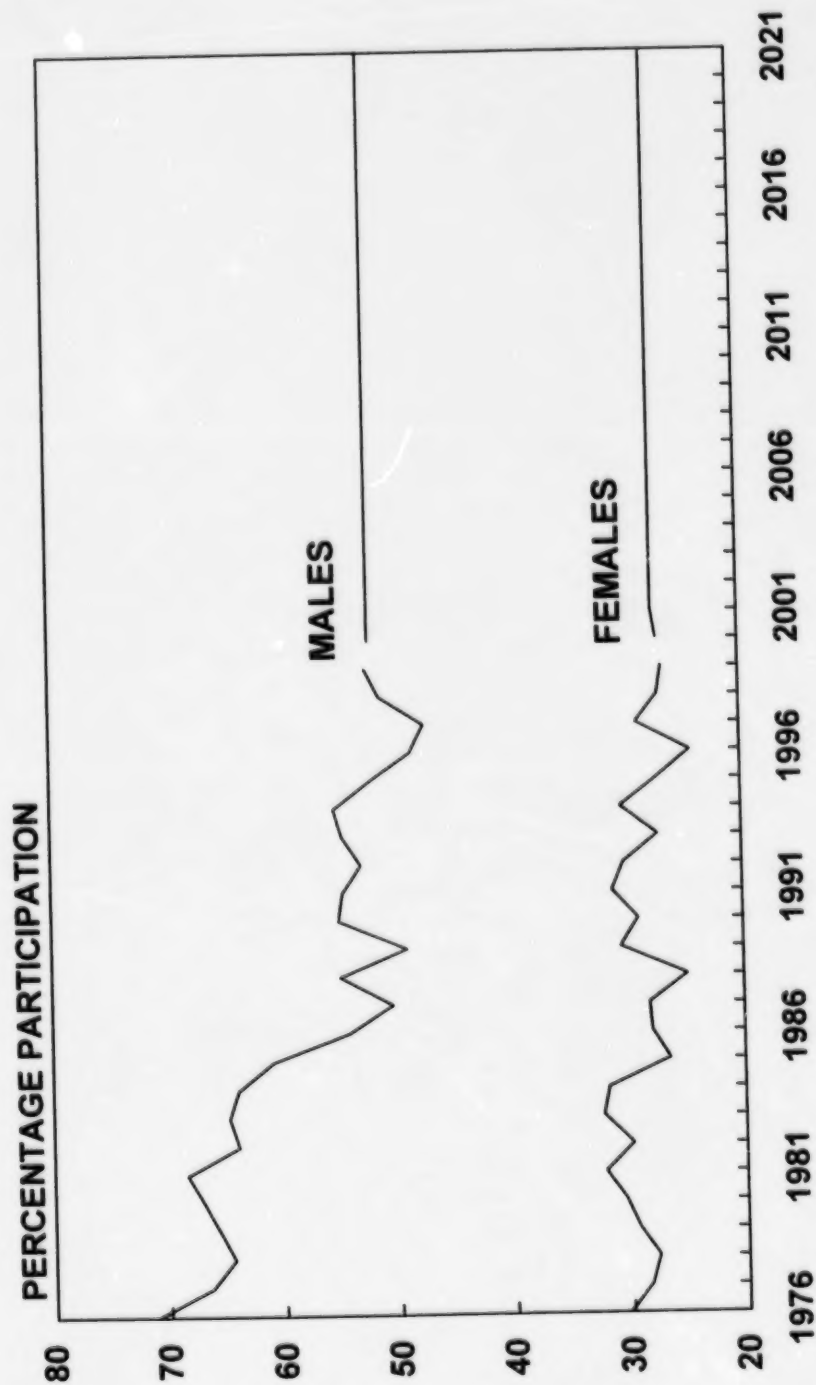
# **MANITOBA PARTICIPATION RATES AGES 55 - 59: 1976 TO 2021 HISTORICAL AND PROJECTED**



MAY 2000

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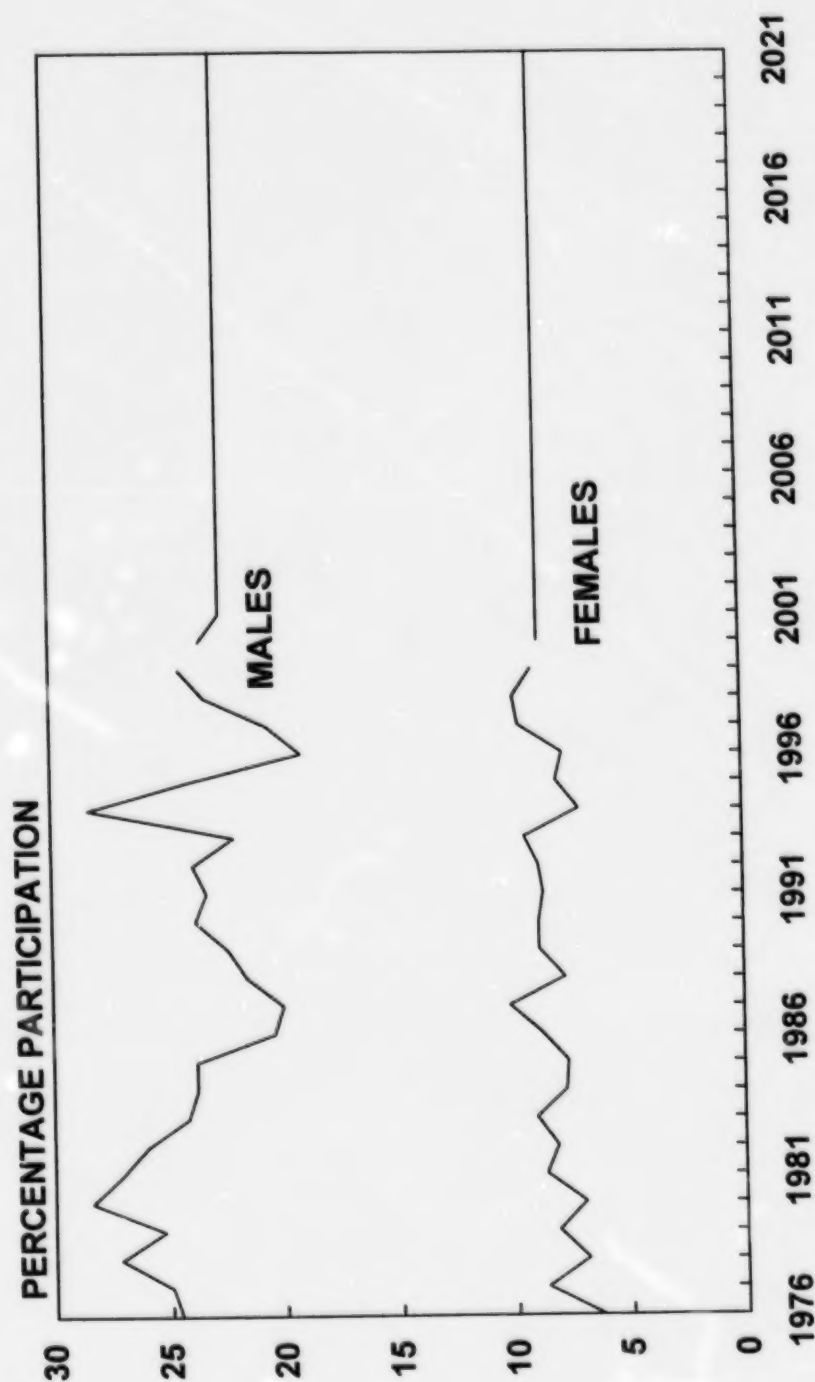
# **MANITOBA PARTICIPATION RATES AGES 60 - 64: 1976 TO 2021 HISTORICAL AND PROJECTED**



MAY 2000

MANITOBA BUREAU OF STATISTICS

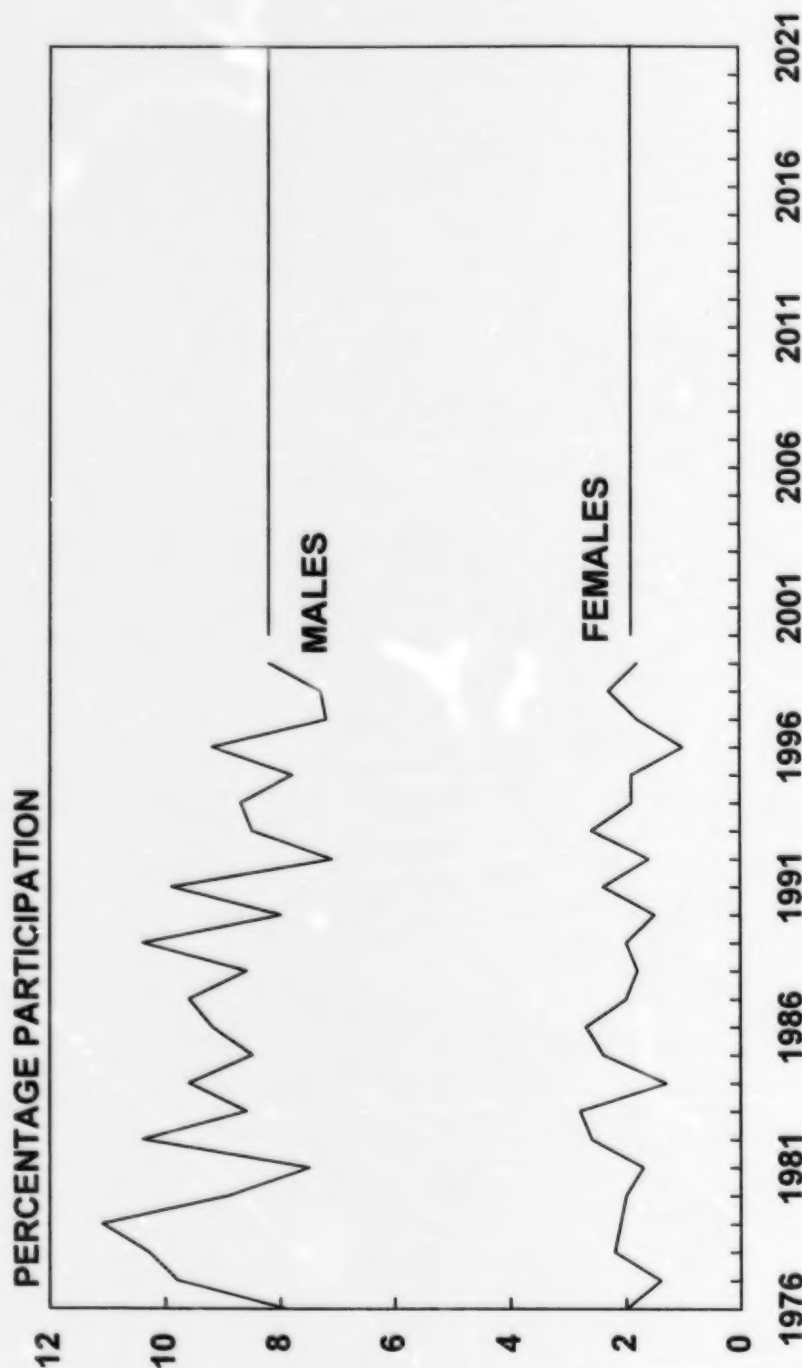
# **MANITOBA PARTICIPATION RATES AGES 65 - 69: 1976 TO 2021 HISTORICAL AND PROJECTED**



MAY 2000

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# **MANITOBA PARTICIPATION RATES AGES 70 OR MORE: 1976 TO 2021 HISTORICAL AND PROJECTED**



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## METHODOLOGY

Historical data (1976 to 1999 annual averages) on Manitoba's age and sex specific participation rates and labour force were obtained from Statistics Canada's Labour Force Survey.

The projected labour force population is based on the Manitoba Bureau of Statistics report **Manitoba Population Projections 1996-2031**. The adjustment factors used to obtain the labour force population (civilian, non-institutionalized, off-reserve population, aged 15 and over) from the projected total population are as follows:

<u>AGE GROUP</u>	<u>MALES</u>	<u>FEMALES</u>
15 - 19	0.92998	0.93380
20 - 24	0.92462	0.94053
25 - 34	0.92699	0.94948
35 - 44	0.95070	0.96612
45 - 54	0.96265	0.97359
55 - 64	0.96693	0.97213
65 - 69	0.97039	0.97456
70 or more	0.93135	0.89407

These adjustment factors are the ratio (on a sex and age group basis) of the 1996 average annual Labour Force Population and the July 1, 1996 population estimate.

The projected labour force is then derived from the product of the projected labour force population and the projected participation rates.

Participation rates by age group and sex were projected for the years 2000 to 2021 in the following ways:

1) **Males 15-19:**

Over the 1995 to 1999 time period, participation rates for males in this age group have shifted downward slightly to level off at an average rate of 59.3%. This average was used as the projected rate.

2) **Males 20-24 and 25-29:**

The participation rates for males in these two age groups have remained relatively steady from 1992 to 1999. For this reason the average participation rates over this time frame were calculated and used as the projected rates.

3) **Males 30-34, 35-44, 45-54, 55-59, 60-64, 65-69 and 70 or more:**

The participation rates for these male age groups appear to be relatively stable for the period 1991 to 1999. Therefore, the average participation rates for these years were used as the projected rates. For the 30 to 34 age group, the average was calculated without the data from 1992 or 1994, since the values for these two years were lower than the other seven years. Similarly, the projected rate for the 55 to 59 age group was calculated without the data for 1995 and 1997. The 65 to 69 age group used the average calculated without the data from 1994, as the 1994 data was considerably higher than the other years.

4) **Females 15-19, 20-24, 65-69, and 70 or more:**

The participation rates of females in these age groups appear to be fluctuating around a nine year average for the period 1991 to 1999. Therefore, the average participation rates of these groups were used as the projected rates. The 20 to 24 age group used the average calculated without the data from 1993, as the 1993 data was considerably higher than the other years.

5) **Females 25-29:**

The participation rates of females in this age group show an exponential curve that appears to be levelling off at 80.5. Therefore, this value was chosen to be the constant projected rate, and phased in over one year.

6) **Females 30-34, 35-44 and 45-54:**

The participation rates of females in these age groups show an exponential growth that seems to be levelling off. An exponential curve was fitted to the data for the 1976 to 1999 time period. The 1999 data for the 35-44 age group was excluded from calculations since it was considerably higher than previous years. The resulting equations are as follows:

$$30 \text{ to } 34 \quad Y = 82 - 915675 * 0.873781^X$$

$$35 \text{ to } 44 \quad Y = 84 - 34492478 * 0.835147^X$$

$$45 \text{ to } 54 \quad Y = 81 - 30770303 * 0.839373^X$$

Where X is the Year minus 1900 and Y is the resulting projected value.

7) **Females 55-59:**

For the 55 to 59 age group, there was a sharp upturn in the participation rate during 1998: a return to the rates of 1989 and 1990. For this age group, the average was taken for the 11 year period 1989 to 1999. This will allow for a participation rate slightly higher than during most of the 1990's. This higher rate would be the result of the ageing of the younger age groups (with higher participation rates).

8) **Females 60-64:**

In this age group, the participation rates appear to be fluctuating around an eight year (1992 to 1999) average rate of 27.5%. This average rate was used as the projected rate, and phased in over one year.

In order to produce a smooth transition between estimated and projected participation rates, in those age groups where it was required, a three year span (1999 to 2001) was used to phase in the projected rates.